

Fig. 1

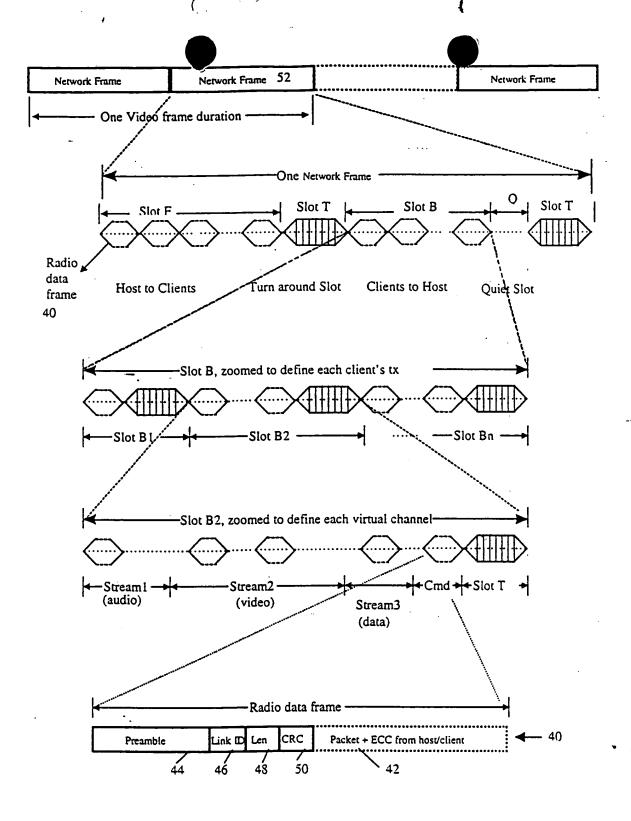
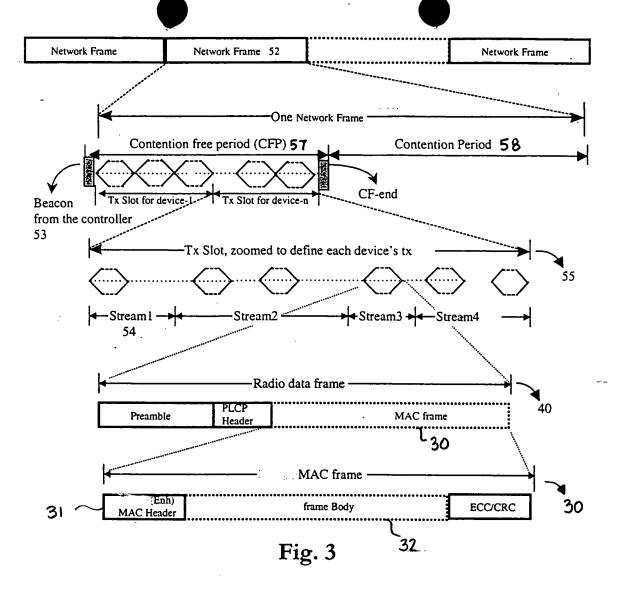


Fig. 2



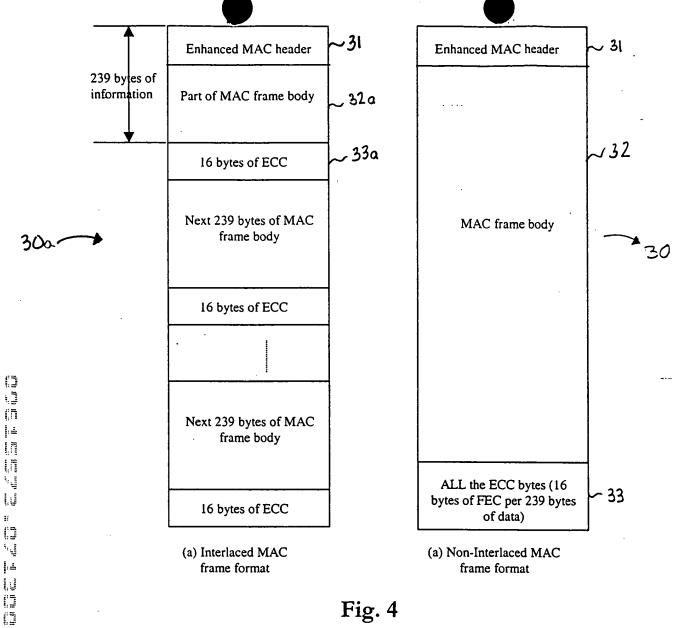


Fig. 4

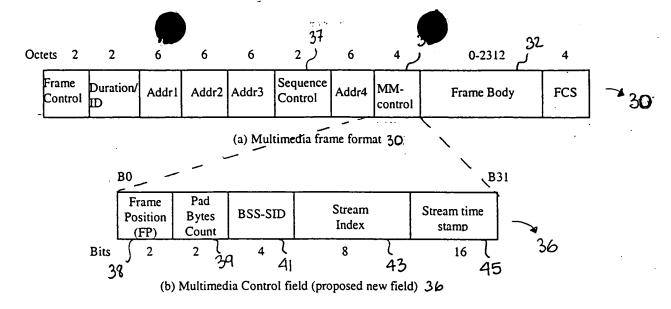
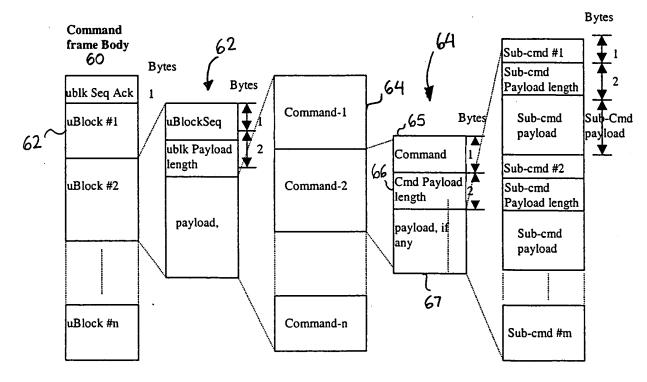


Fig. 5



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Fig. 6

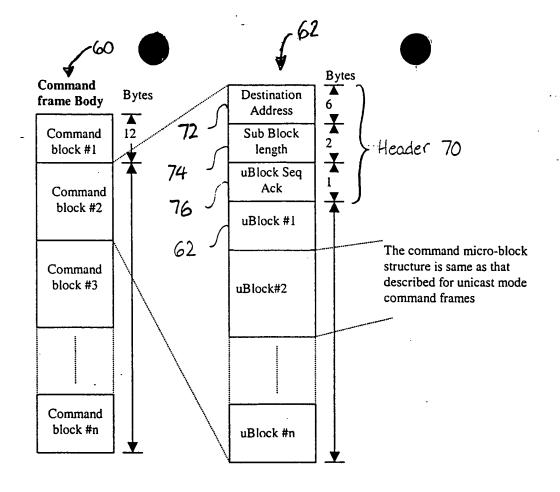
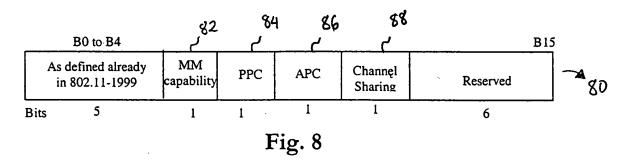
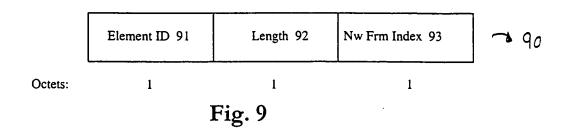


Fig. 7





7

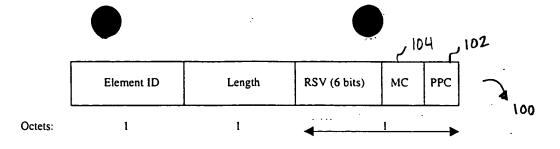


Fig. 10

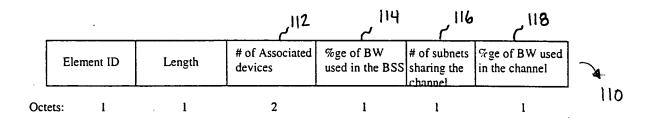


Fig. 11

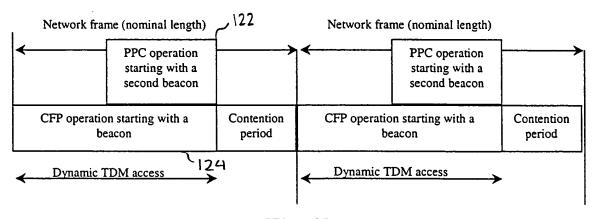
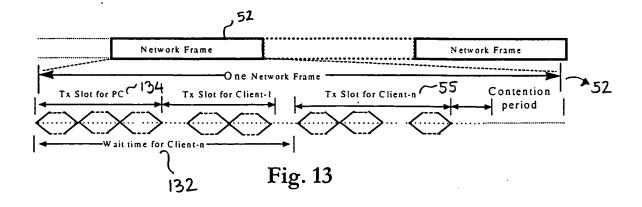


Fig. 12



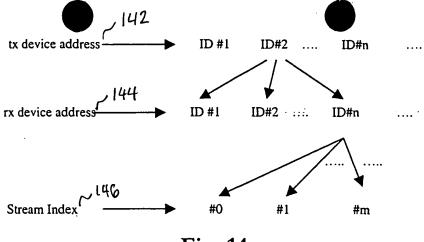


Fig. 14

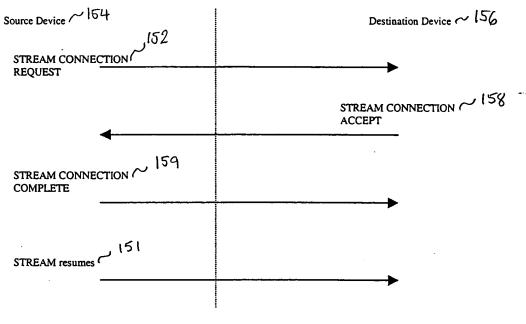
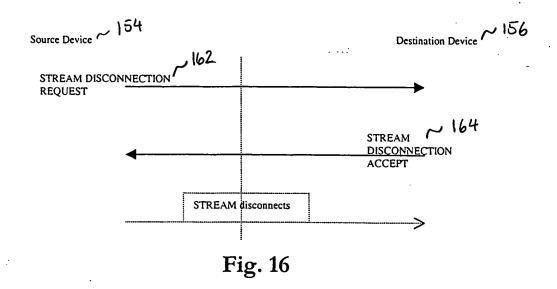
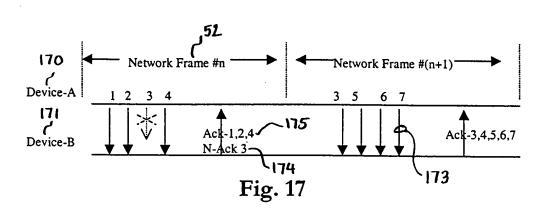
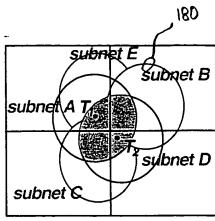
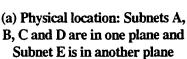


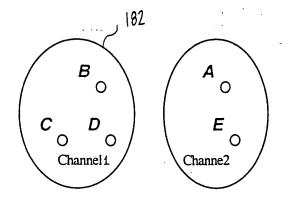
Fig. 15





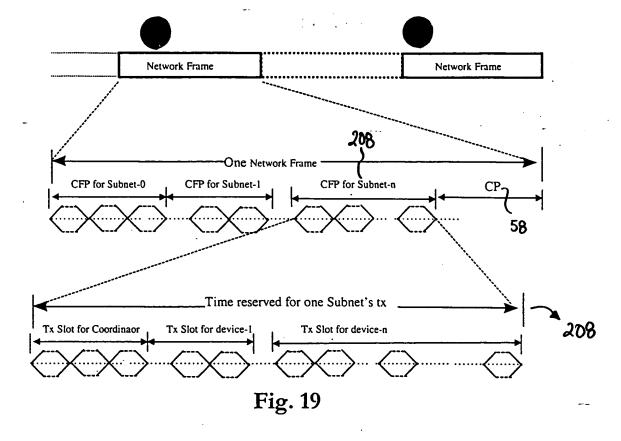






(b) Logical location: Subnets B, C and D share channel-1 and Subnet A and E share channel-2

- Subnet B comes up first and assumes all zero BSS-SID in channel 1 with 10%bandwidth utilization
- Subnet A comes up next and assumes all zero BSS-SID in channel 2 with 80% bandwidth utilization
- Subnet D comes up:
  - Detects both channels being busy
  - Detects channel-1 with low bandwidth utilization and
  - Requests 30% bandwidth in channel-1
  - Subnet B and D share Channel 1 with 10% and 30% bandwidth usage respectively
- Subnet C comes up:
  - Detects both channels being busy
  - Detects channel-1 with low bandwidth utilization and
  - Requests 40% bandwidth in channel-1
  - Subnet B, C and D share Channel 1 with 10%, 40% and 30% bandwidth usage respectively
- Subnet E (not shown in picture) comes up:
  - Detects both channels being busy
  - Detects channel-1 and channel-2 with approximately same bandwidth utilization
  - Detects channel-2 with lower umber of subnets
  - Requests 40% bandwidth in channel-2.



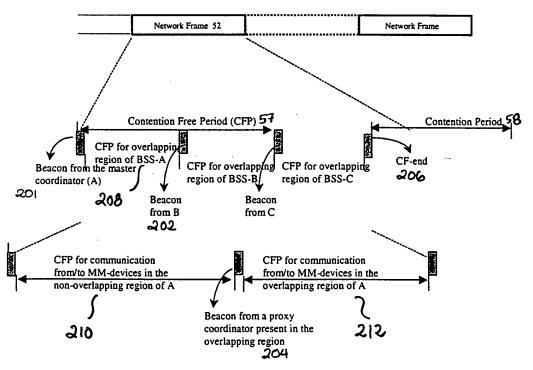
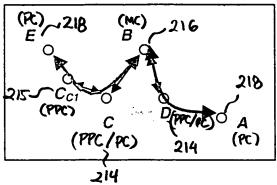


Fig. 20



- Subnet B comes up first and assumes all zero BSS-SID
- Subnet D comes up next and requests bandwidth sharing with B
- Subnet C comes up next and requests bandwidth sharing with B and D
- Subnet A comes up:
  - Subnet B can not detect A and/or A can not detect B
  - Subnet D detects both and reports to B that A is operating in the same channel
  - B assigns D to be proxy coordinator and sends request to D for bandwidth sharing. If A can detect any packets from B or D it can also send the same request.
  - D acts as tunnel between B and A.
  - A gets a invitation from B to join the already group existing group of B, C and D.
  - A gets assigned an SS-ID and its transmission always follows that of D
- Subnet E comes up:
  - Except C<sub>cl</sub>, no other device can detect E and or otherwise
  - E tries to use another channel and fails
  - There is only one option to E and that is to join the same group formed above, else it will be interfering with  $C_{cl}$ .
  - C<sub>cl</sub>. detects request from E and reports to C that E is operating in the same channel
  - C tunnels the information to B.
  - B assigns  $C_{cl}$  to be proxy coordinator and sends request to C for permission.
  - C authenticates the request and provides the permission.
  - C and  $C_{cl}$  together form a tunnel between B and E.
  - E gets assigned an SS-ID and its transmission always follows that of  $C_{cl}$

Fig. 22

 Stream Management
 1 Octet

 Cmd Payload len
 2 Octets

 Subcommand structure
 n Octets

Fig. 23

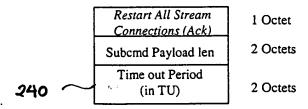


Fig. 24

the test time the time that the time the time the time that the time the time that the time the time that the time the time that the time that the time that the time that the time the time that the time that the time that the time that the time the time the time the time that the time the ti

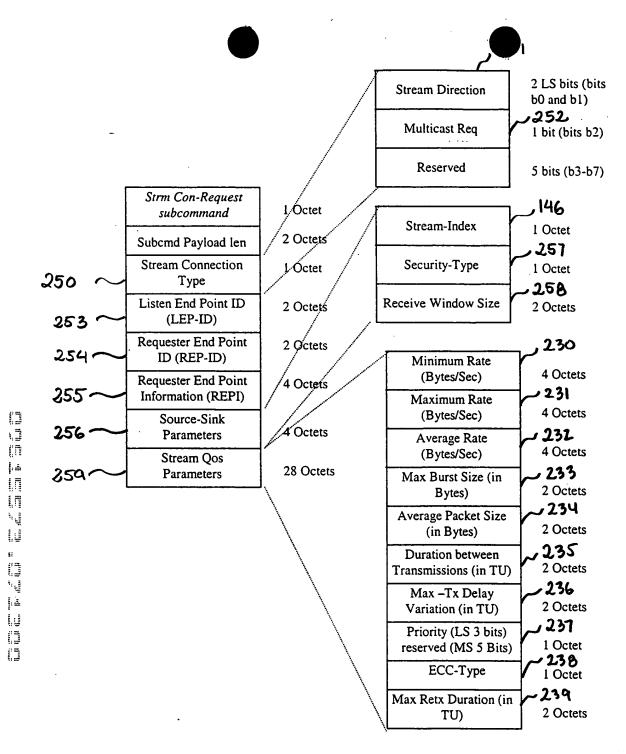


Fig. 25

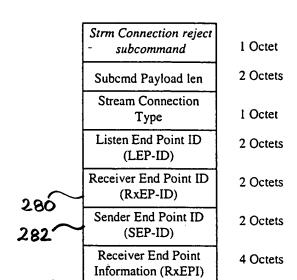
| Strm Con-Request subcommand               | 1 Octet   |  |
|---|-----------|--|
| Subcmd Payload len                        | 2 Octets  |  |
| Stream Connection<br>Type                 | I Octet   |  |
| Listen End Point ID<br>(LEP-ID)           | 2 Octets  |  |
| Requester End Point<br>ID (REP-ID)        | 2 Octets  |  |
| Requester End Point<br>Information (REPI) | 4 Octets  |  |
| Source-Sink Params for Tx-stream          | 4 Octets  |  |
| Stream Qos Params<br>for Tx-Stream        | 28 Octets |  |
| Source-Sink Params for Rx-stream          | 4 Octets  |  |
| Stream Qos Params<br>for Rx-Stream        | 28 Octets |  |

Fig. 26

## Stream Direction is '3'

| S           | tream Direction is '1' or '2              | 2'                 | Strm Connection Accept subcommand        | 1 Octet   |
|-------------|---|--------------------|--|-----------|
| 270~<br>272 | Strm Connection Accept subcommand 1 Octet | Subcmd Payload len | 2 Octets                                 |           |
|             |   | 1 Octet            | Stream Connection                        | 10        |
|             | Subcmd Payload len                        | · 2 Octets         | Туре                                     | 1 Octet   |
|             | Stream Connection Type                    | 1 Octet            | Listen End Point ID (LEP-ID)             | 2 Octets  |
|             | Listen End Point ID (LEP-ID)              | 2 Octets           | Requester End Point<br>ID (REP-ID)       | 2 Octets  |
|             | Requester End Point<br>ID (REP-ID)        | 2 Octets           | Acceptor End Point<br>ID (AEP-ID)        | 2 Octets  |
|             | Acceptor End Point ID (AEP-ID)            | 2 Octets           | Acceptor End Point<br>Information (AEPI) | 4 Octets  |
|             | Acceptor End Point<br>Information (AEPI)  | 4 Octets           | Source-Sink Params for Tx-stream         | 4 Octets  |
|             | Source-Sink Params for stream             | 4 Octets 28 Octets | Stream Qos Params<br>for Tx-Stream       | 28 Octets |
|             | Stream Qos Params<br>for Stream           |                    | Source-Sink Params for Rx-stream         | 4 Octets  |
|             | loi odcani                                | ]                  | Stream Qos Params<br>for Rx-Stream       | 28 Octets |

Fig. 27



Stream Direction is '1' or '2' or 3

Fig. 28

## Stream Direction is '1' or '2' or '3'

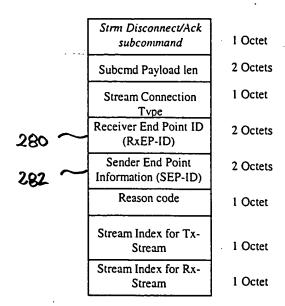


Fig. 29

## Stream Direction is '1' or '2'

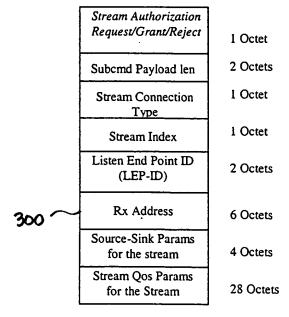


Fig. 30

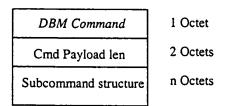


Fig. 31

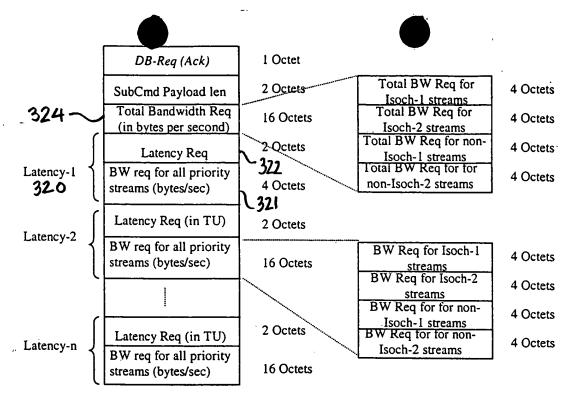


Fig. 32

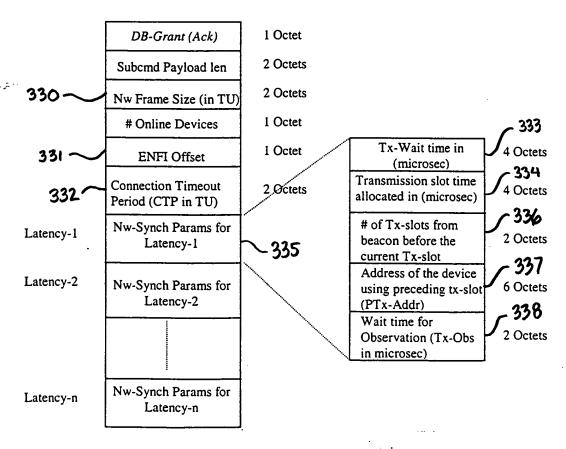


Fig. 33

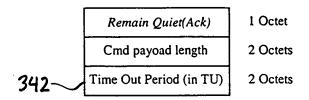


Fig. 34

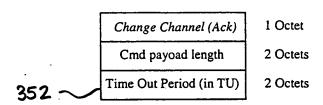


Fig. 35

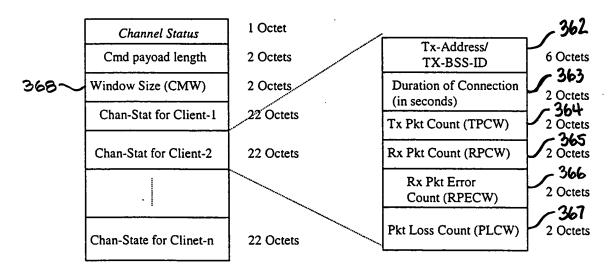


Fig. 36

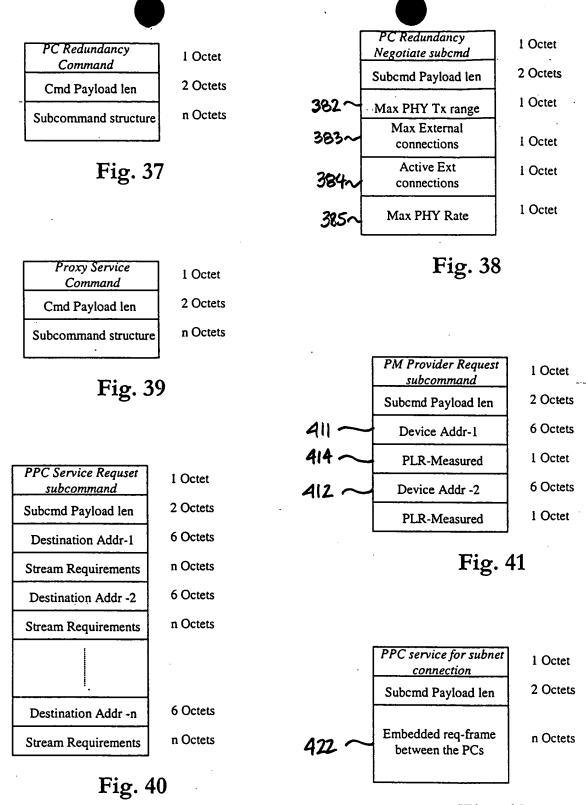


Fig. 42

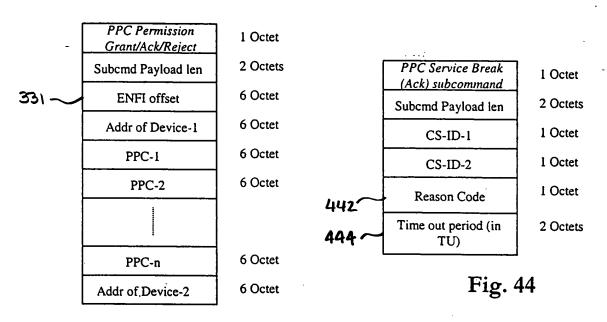


Fig. 43

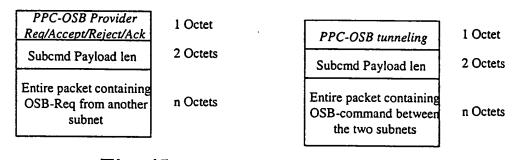


Fig. 46

Fig. 45

| PPC-OSB Relieve Req<br>(Ack) subcommand     | 1 Octet  |
|---|----------|
| Subcmd Payload len                          | 2 Octets |
| BSS SID (LS 4 bits)<br>Reserved (MS 4 bits) | 1 Octet  |
| BSS ID                                      | 6 Octets |

Fig. 47

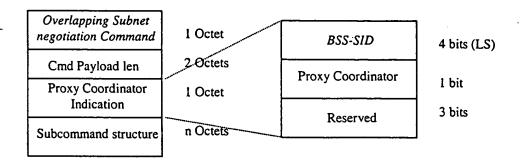


Fig. 48

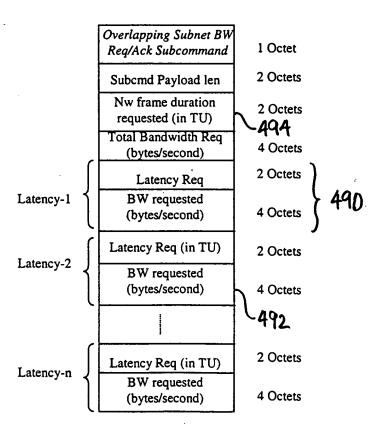
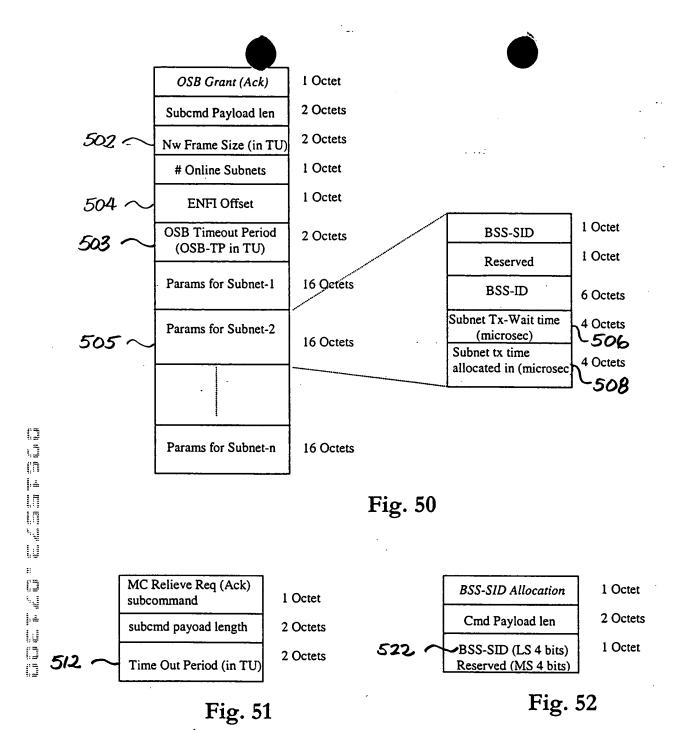


Fig. 49



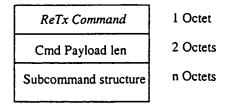


Fig. 53

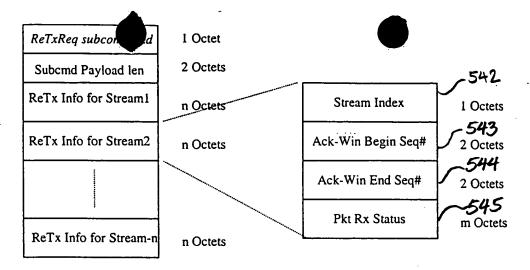


Fig. 54

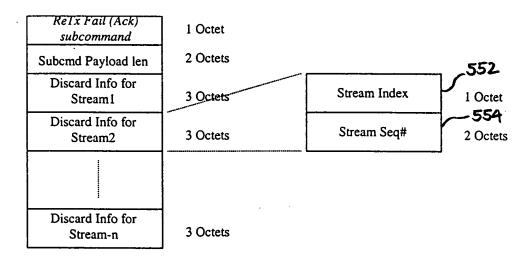


Fig. 55

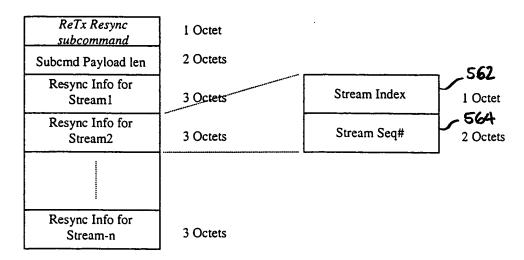


Fig. 56